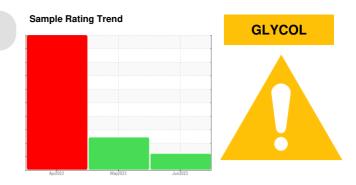
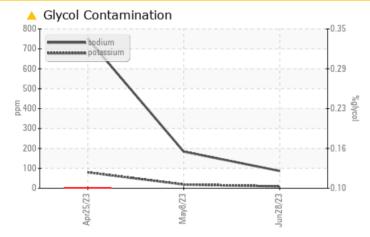
PROBLEM SUMMARY



Machine Id 526074

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Engine oil resample)

PROBLEMATIC TEST RESULTS								
Sample Status			ATTENTION	ABNORMAL	SEVERE			
Sodium	ppm	ASTM D5185m	<u> </u>	1 84	<mark>▲</mark> 751			

Customer Id: GFL411 Sample No.: GFL0076885 Lab Number: 05889616 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

08 May 2023 Diag: Jonathan Hester



We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels remain high. The BN result indicates that there is suitable alkalinity remaining in the oil.



25 Apr 2023 Diag: Don Baldridge



We advise that you check for the source of the coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. Elemental level of silicon (Si) above normal. The oil is no longer serviceable due to the presence of contaminants.





OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

Machine Id 526074

Component Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Engine oil resample)

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels remain high. Test for glycol is negative.

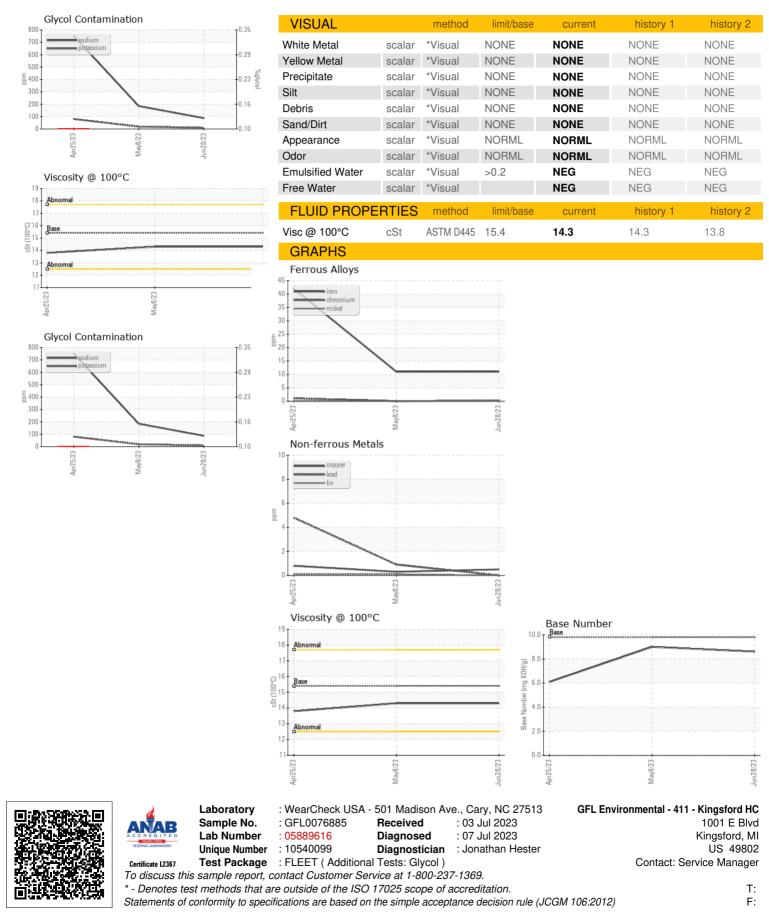
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Ap	12023	May2023 Jun20	23	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0076885	GFL0076870	GFL0076872
Sample Date		Client Info		28 Jun 2023	08 May 2023	25 Apr 2023
Machine Age	hrs	Client Info		3399	3044	2964
Oil Age	hrs	Client Info		435	80	600
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ATTENTION	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	11	11	42
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	3
Lead	ppm	ASTM D5185m	>40	0	<1	5
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	5	9	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	72	128
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	989	931	995
Calcium	ppm	ASTM D5185m	1070	1130	1132	1238
Phosphorus	ppm	ASTM D5185m	1150	1032	1002	1007
Zinc	ppm	ASTM D5185m	1270	1258	1237	1344
Sulfur	ppm	ASTM D5185m	2060	3965	3657	3562
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	5	8	A 31
Sodium	ppm	ASTM D5185m		<mark>/</mark> 87	1 84	7 51
Potassium	ppm	ASTM D5185m	>20	9	1 9	8 0
Glycol	%	*ASTM D2982		NEG	NEG	0.10
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.4	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.3	21.7
FLUID DEGRAD	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	14.1	16.5



OIL ANALYSIS REPORT



Submitted By: TECHNICIAN ACCOUNT